

## PUBLIC NOTICE

**PERMIT APPLICATION NUMBER:** NRS 08.054 – NRS 08.054I

**APPLICANT:** Tennessee Department of Transportation  
Environmental Permits Office  
Attn: Anthony Myers  
Suite 900, J.K. Polk Building  
Nashville, TN 37243-0334  
615-532-9945

**LOCATION:** The proposed aquatic alterations are located along the existing SR-109 from just north of Interstate 40 to just south of SR-24 (US 70) in Wilson County.

**WATERSHED DESCRIPTION:** The proposed alterations would impact 6 unnamed tributaries to Spencer Creek and 2 unnamed tributaries to Cedar Creek and one wetland. All resources are located within the Old Hickory Lake watershed (HUC 05130201). The tributaries range in width from 2 feet to 5 feet and in depth from 6 inches to 3 feet. Two of the Spencer Creek tributaries have been assessed as fully supporting their classified uses. Those classified uses are fish and aquatic life, recreation, livestock watering and wildlife, and irrigation. The tributaries have not been assessed to determine if they are high quality. The wetland is small and isolated. The surrounding land use is primarily residential with light commercial. Some of the tributaries and the wetland have already been altered by utility installation.

**PROJECT DESCRIPTION:** The applicant proposes to impact several streams and a wetland associated with the widening of SR-109 along the existing alignment. The proposed impacts are listed below.

**NRS 08.054, Station 527+87.79, unnamed tributary to Cedar Creek:** Existing conditions are 319 feet of open stream and 81 feet of reinforced concrete pipe (RCP). Proposed conditions are 38 feet of extension at the inlet of the existing RCP, 52 feet of extension at the outlet of the existing RCP, and 245 feet of open stream. The 245 feet of open stream includes 30 feet of riprap scour protection, and transition channel.

**NRS 08.054B, Station 549+10.00, unnamed tributary to Cedar Creek:** Existing Conditions are 385 feet of open stream and 50 feet of RCP. Proposed conditions are 355 feet of relocated open stream (includes 40 feet of riprap scour protection), 20 feet of side drain pipe, and two storm water outfalls. The 60 feet of stream loss would be mitigated for by payment of \$12,000.00 to the Tennessee Stream Mitigation Program (TSMP).

**NRS 08.054C, Station 599+70 to 601+60, unnamed tributary to Spencer Creek:** Existing Condition is 200 feet of open stream. Proposed conditions are 260 feet of relocated open stream (includes 15 feet of riprap scour protection), 50 feet of side drain pipe and a storm water outfall.

**NRS 08.054D, Station 598+50 to 605+30, unnamed tributary to Spencer Creek:** Existing Conditions are 1,148 feet of open stream and 190 feet of existing culverts, pipes, and box bridges. Proposed Conditions are 998 feet of relocated open channel (includes 65 feet of riprap scour protection) and 301 feet of culverts, pipes, and box bridges. The alterations would result in a stream loss of 49 feet. The 301 feet of encapsulations and 49 feet of stream loss would be mitigated for by payment of \$70,000.00 to the TSMP. The 65 feet of riprap would be mitigated for by payment of \$9,800.00 (65 feet x 0.75 = 49 feet, 49 feet x \$200 = \$9,800.00) to the TSMP

**NRS 08.054E, Station 614+80 to 617+00, unnamed tributary to Spencer Creek:** Existing Conditions are 410 feet of open stream and 25 feet of 24-inch culvert. Proposed Conditions are 350 feet of relocated open stream, 14 feet of side drain pipe and a storm water outfall. The 71 feet of stream loss would be mitigated for by payment of \$14,200.00 to the TSMP.

**NRS 08.054F, Station 617+00.00 to 617+87.03, unnamed tributary to Spencer Creek:** Existing Conditions are 140 feet of open stream and 58 feet of RCP. Proposed Conditions are 170 feet of relocated open stream (includes 20 feet of riprap scour protection), 23 feet of RCP extension at the outlet, and 21 feet of RCP extension at the inlet.

**NRS 08.054G, Station 647+00, wetland:** Existing Condition is a total of 0.148 acres of wetland. Proposed Conditions are 0.101 acres of permanent fill and 0.047 acres of temporary impacts. The permanent impacts would be mitigated for by debiting, at a 2:1 ratio, 0.20 acres of available wetland credits from the Harpeth Wetland Mitigation Bank.

**NRS 08.054H, Station 653+98.00 to 654+80.00, unnamed tributary to Spencer Creek:** Existing Condition is 205 feet of open stream. Proposed Condition is 195 feet of relocated open stream. The 10 feet of stream loss would be mitigated for by payment of \$2,000.00 to the TSMP.

**NRS 08.054I, Station 249+20 (Pryor Creek Road), unnamed tributary to Spencer Creek:** Proposed is a 2 feet wide flat bottom storm water outfall ditch.

**USGS TOPOGRAPHIC QUADRANGLE:** Martha, TN (314 – NW)

**PERMIT COORDINATOR:** Trent Thomas

No decision has been made whether to issue or deny this permit. The purpose of this notice is to inform interested parties of this permit application and to ask for comments and information necessary to determine possible impacts to water quality. Persons wishing to comment on the proposal are invited to submit written comments to the department. Written comments must be received within **thirty days of the date that this notice is posted**. Comments will become part of the record and will be considered in the final decision. The applicant's name and permit number should be referenced.

Interested persons may also request in writing that the department hold a public hearing on this application. The request must be filed within the comment period, indicate the interest of the person requesting it, the reasons that the hearing is warranted, and the water quality issues being raised. When there is sufficient public interest in water quality issues, the department will hold a public hearing.

The permit application, supporting documentation including detailed plans and maps, and related comments are available at the department's address for review and/or copying. The department's address is:

Tennessee Department of Environment & Conservation  
Division of Water Pollution Control, Natural Resources Section  
7th Floor L & C Annex  
401 Church Street  
Nashville, TN 37243

In deciding whether to issue or deny a permit, the department will consider all comments on record and the requirements of applicable federal and state laws.



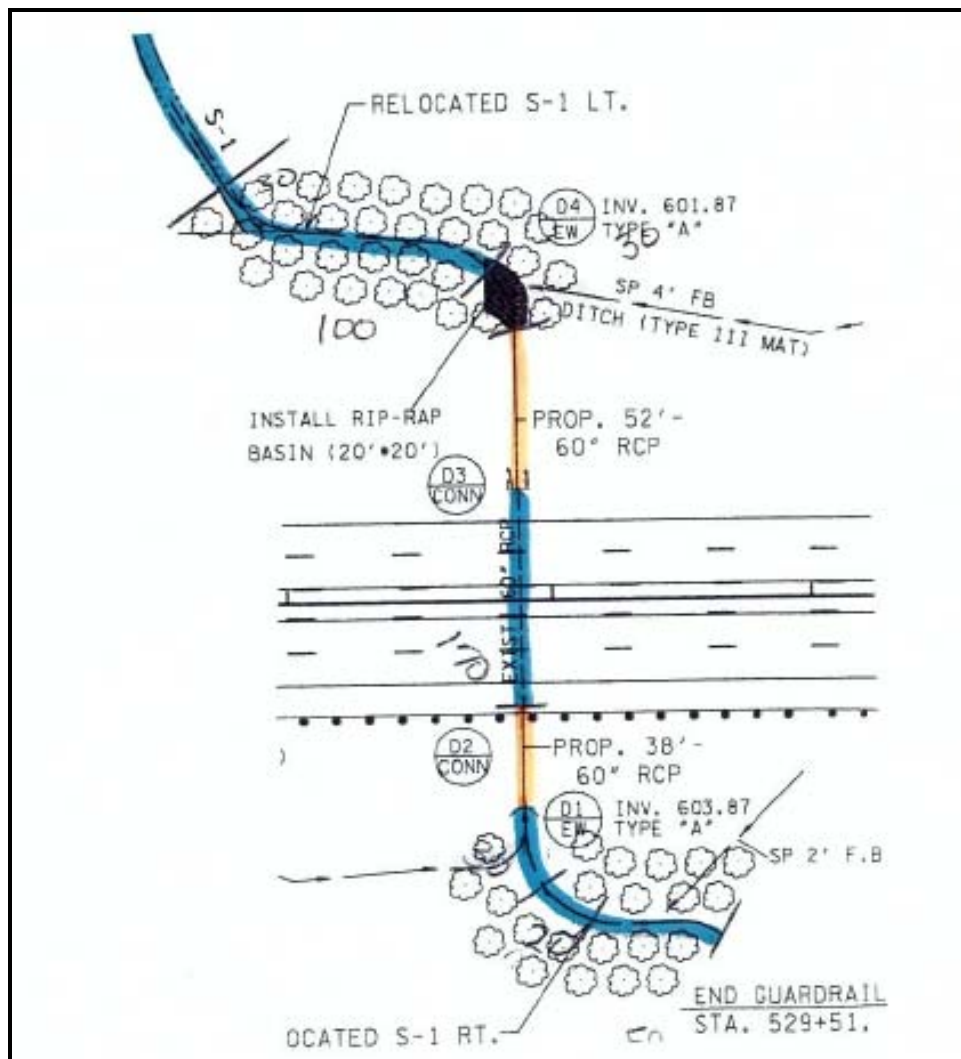
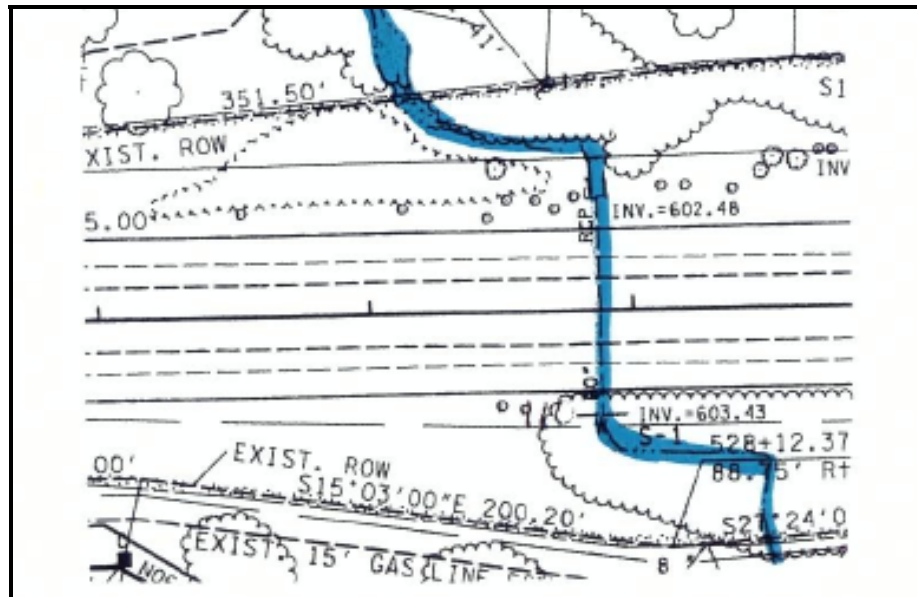
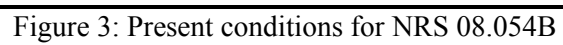


Figure 2: Present and proposed conditions for NRS 08.054



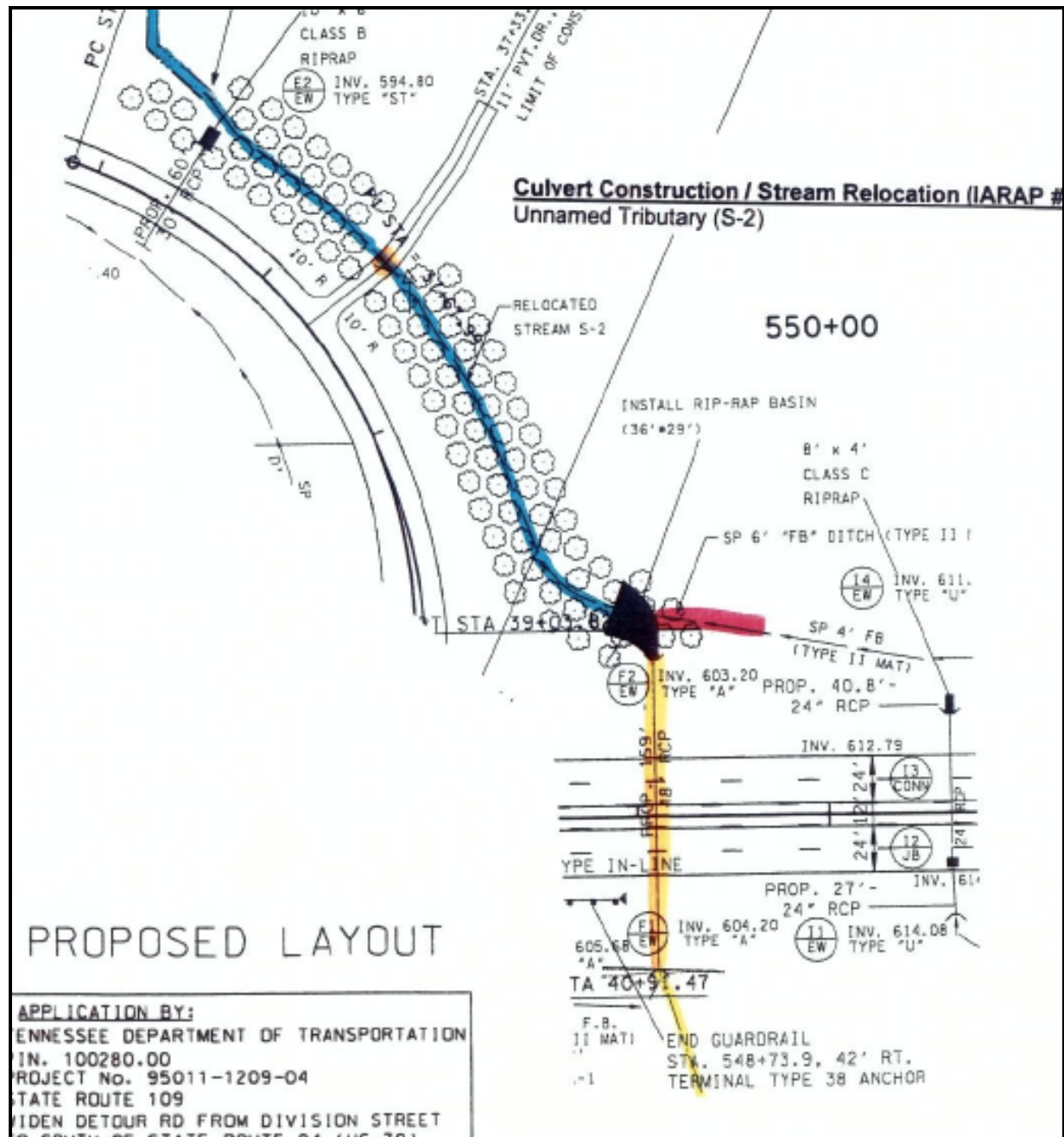


Figure 4: Proposed conditions for NRS 08.054B

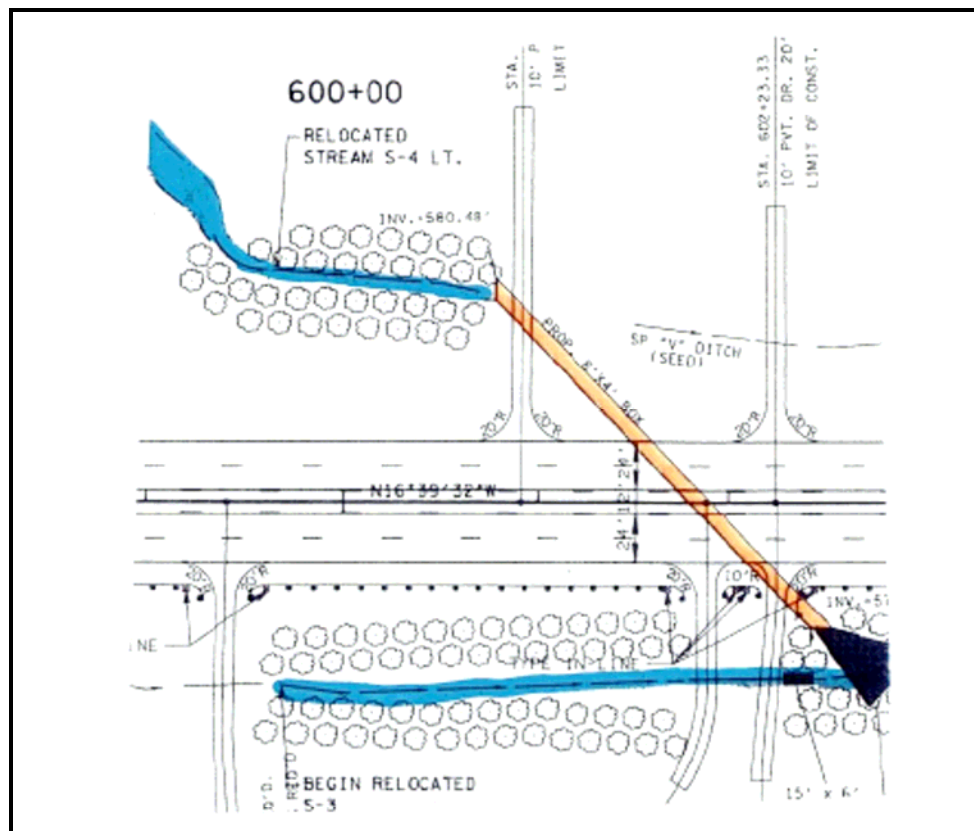
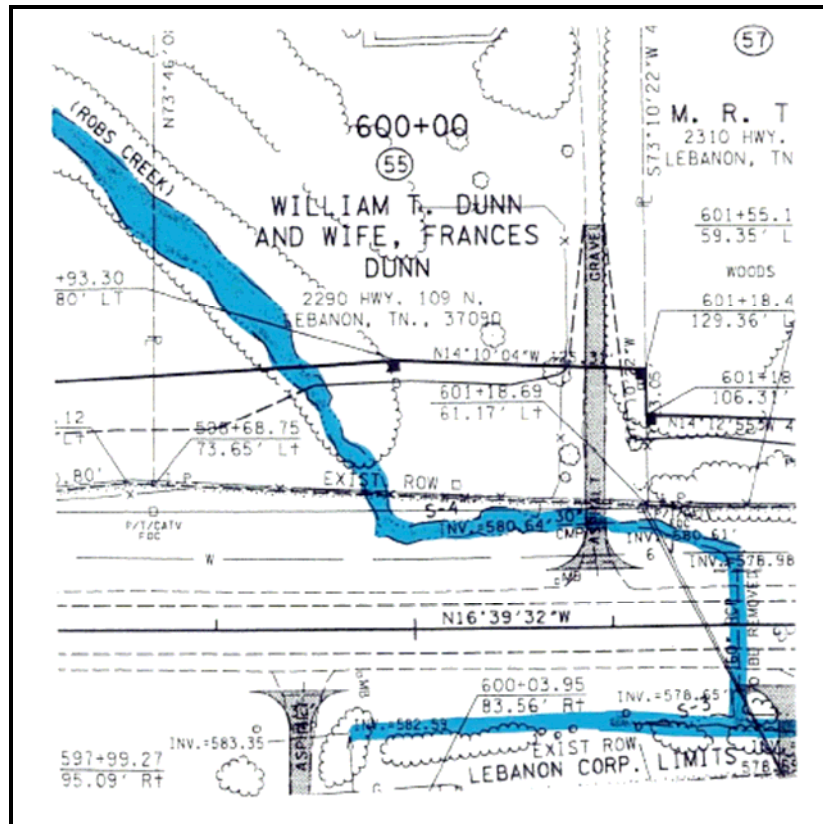


Figure 5: Present and proposed conditions for NRS 08.054C & D

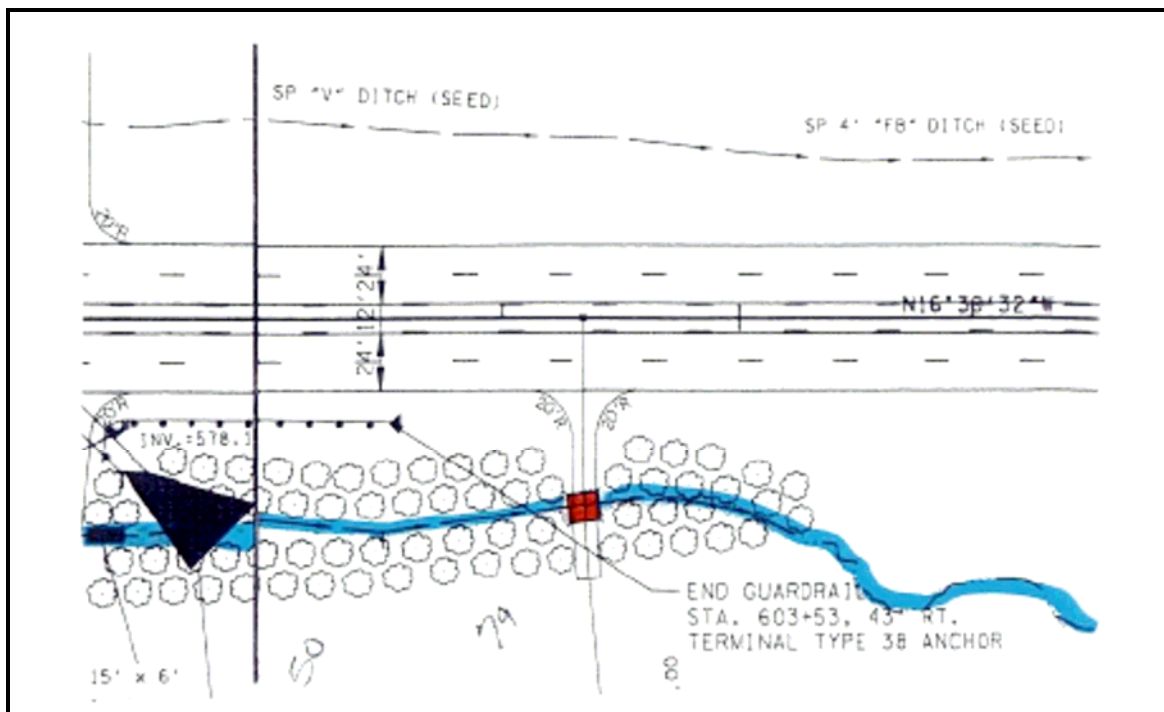


Figure 6: Present and proposed conditions for NRS 08.054D continued

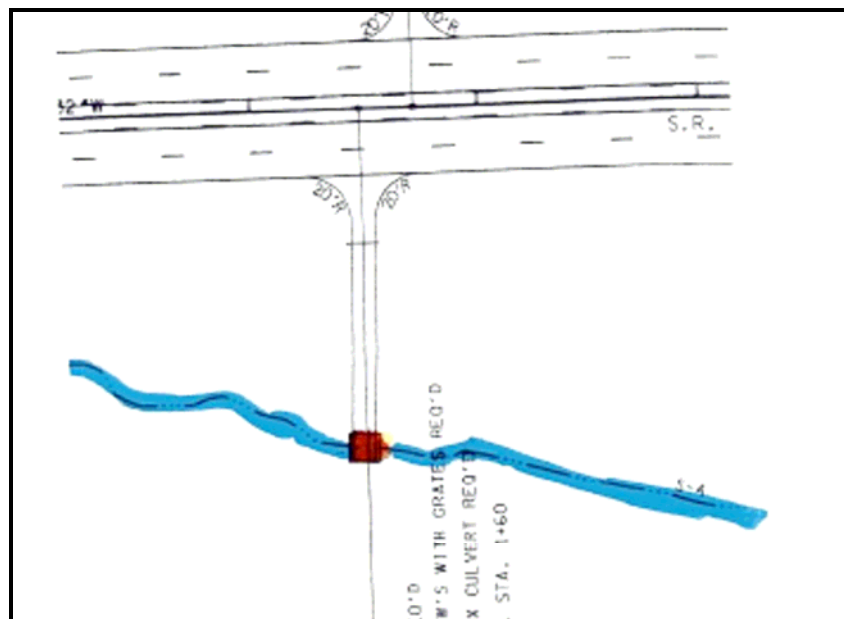
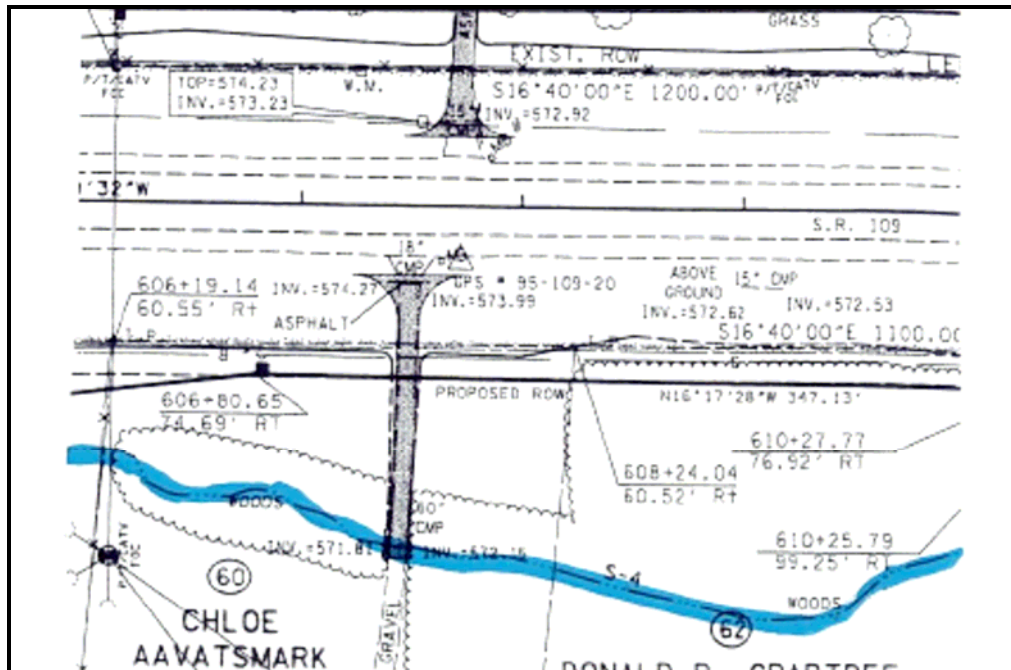


Figure 7: Present and proposed conditions for NRS 08.054D continued

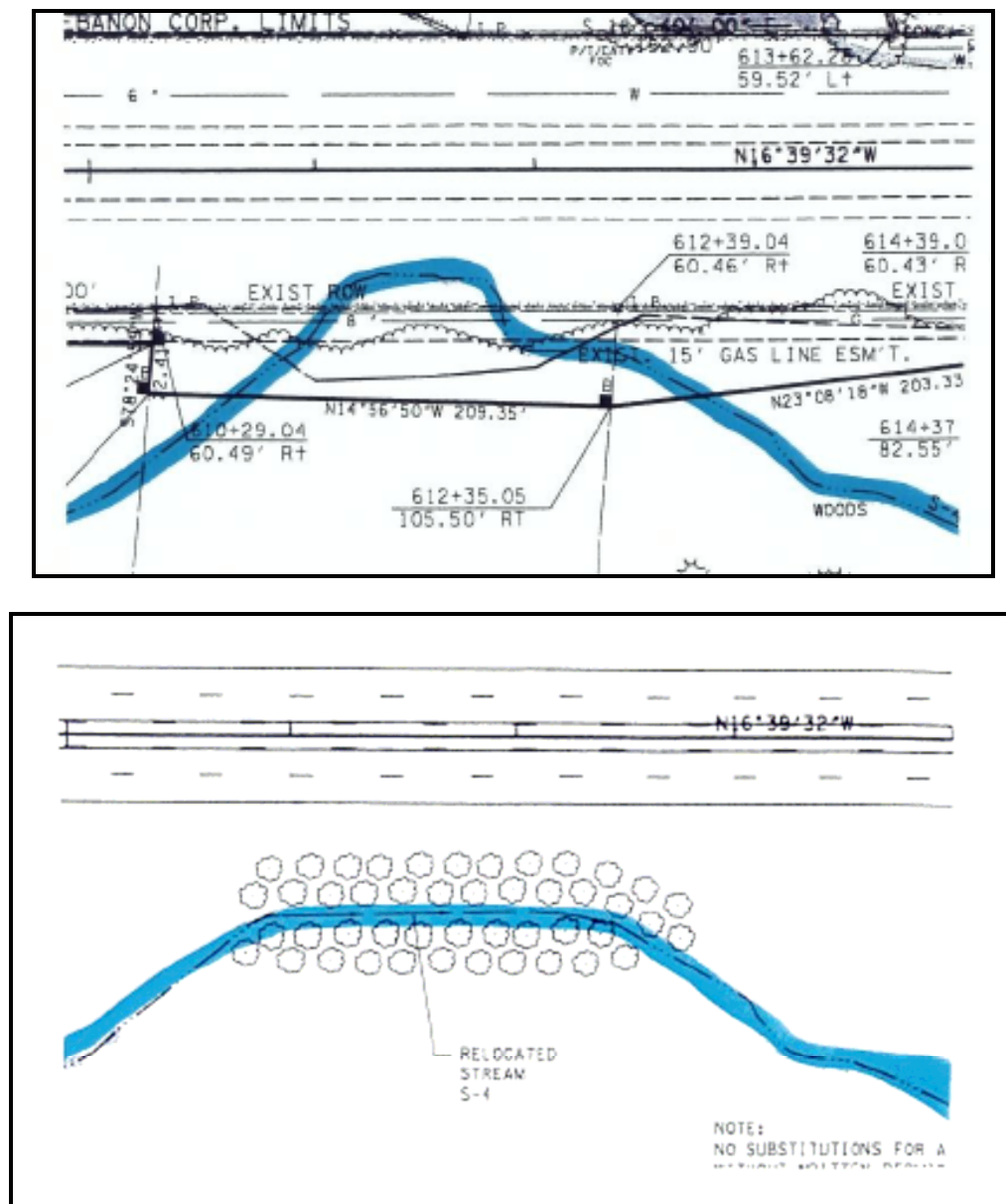


Figure 8: Present and proposed conditions for NRS 08.054D continued

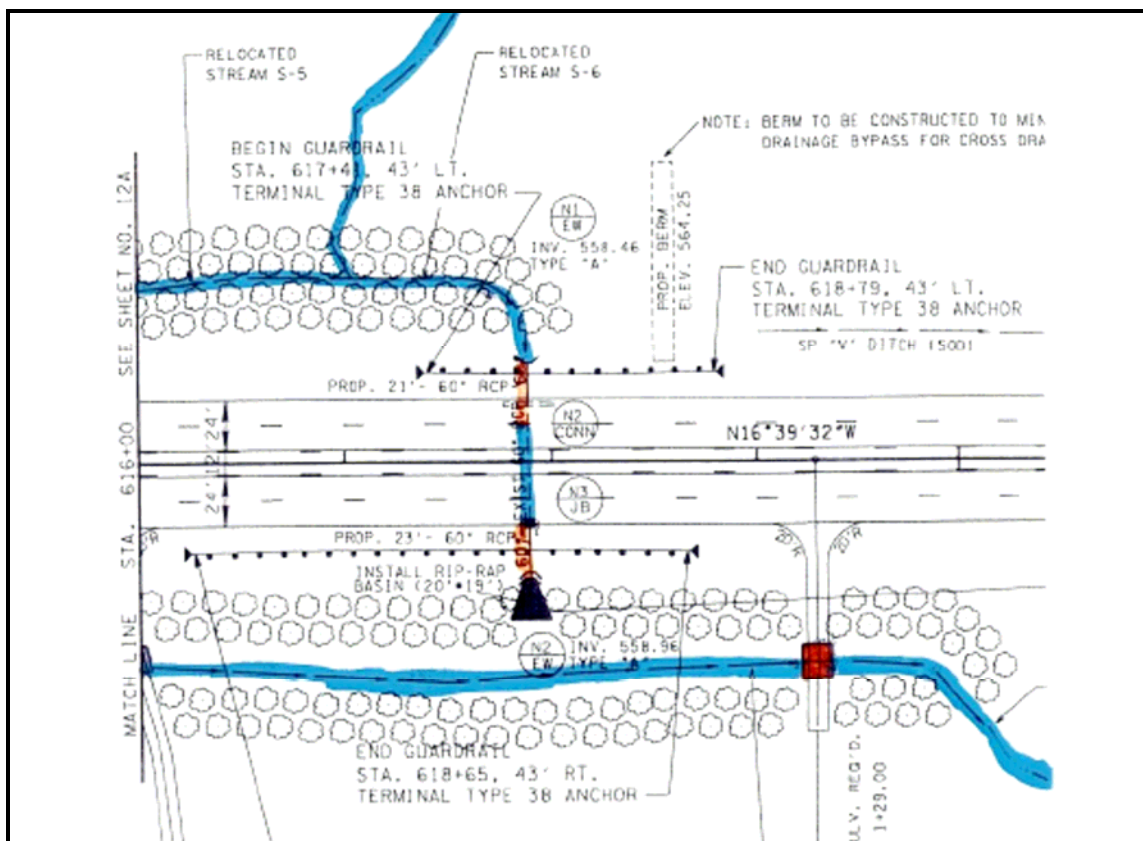
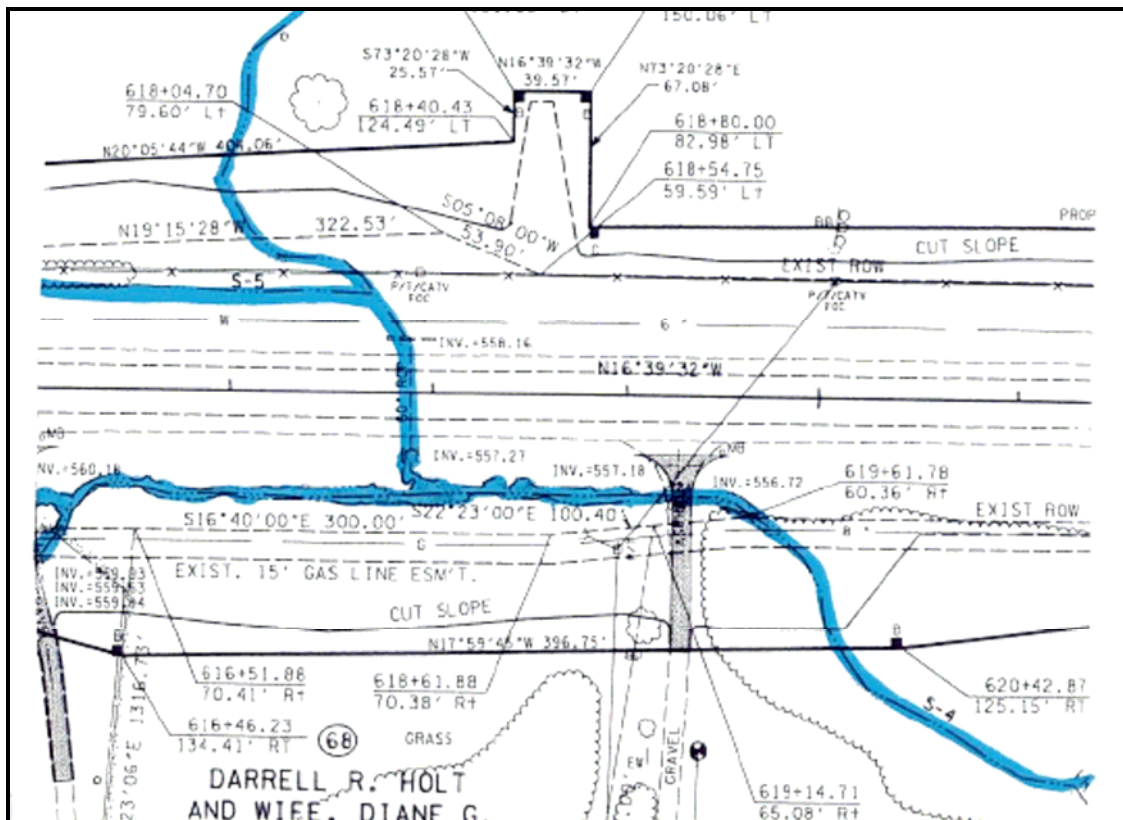


Figure 9: Present and proposed conditions for NRS 08.054D continued and NRS 08.054E & F

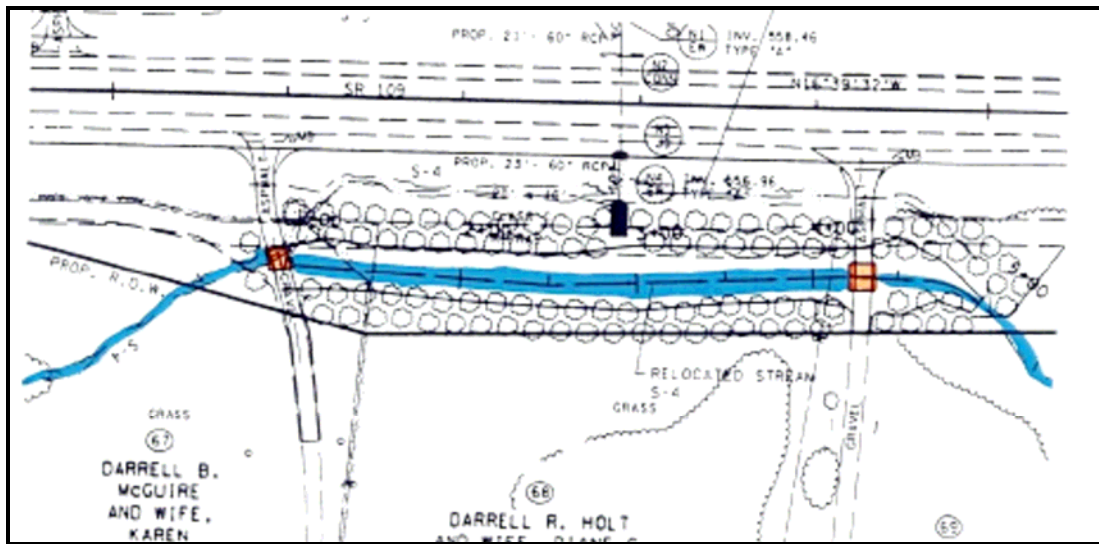


Figure 10: Present and proposed conditions for NRS 08.054D continued

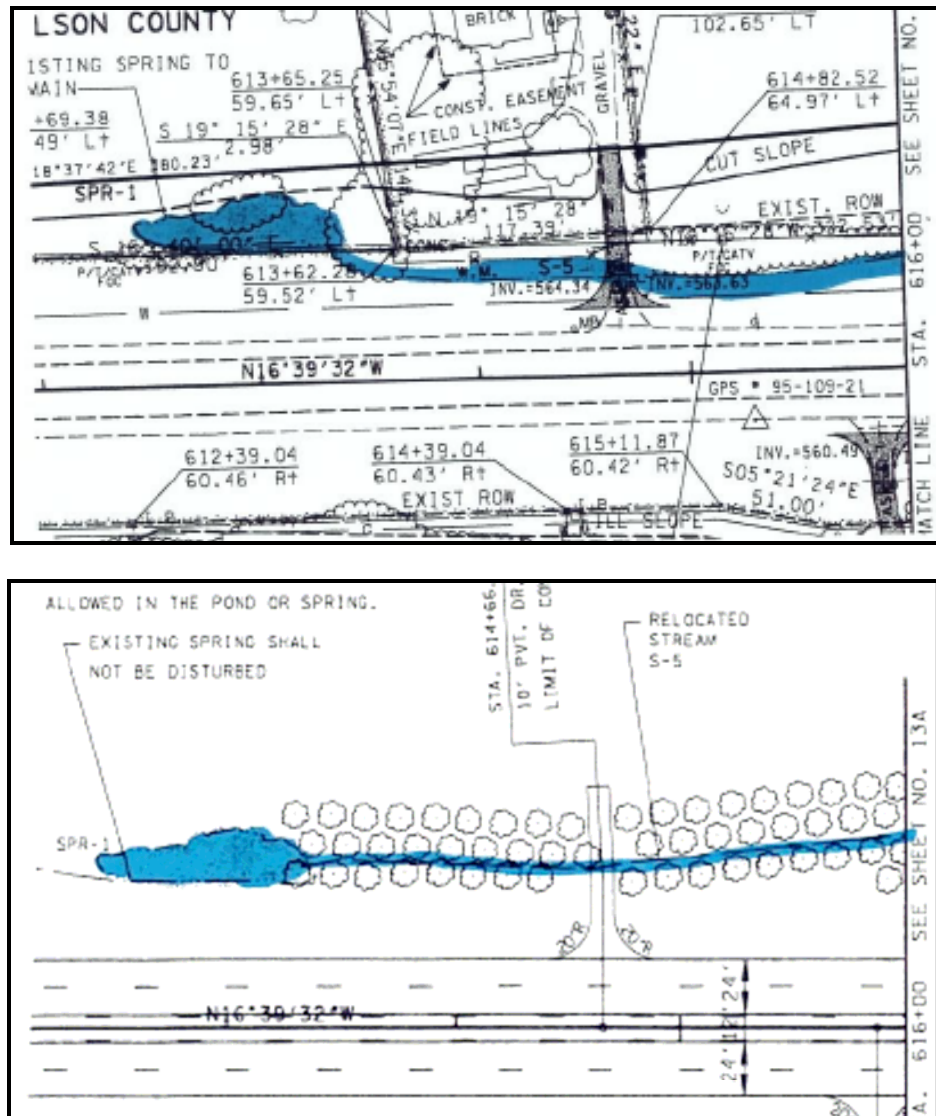


Figure 11: Present and proposed conditions for NRS 08.054E continued

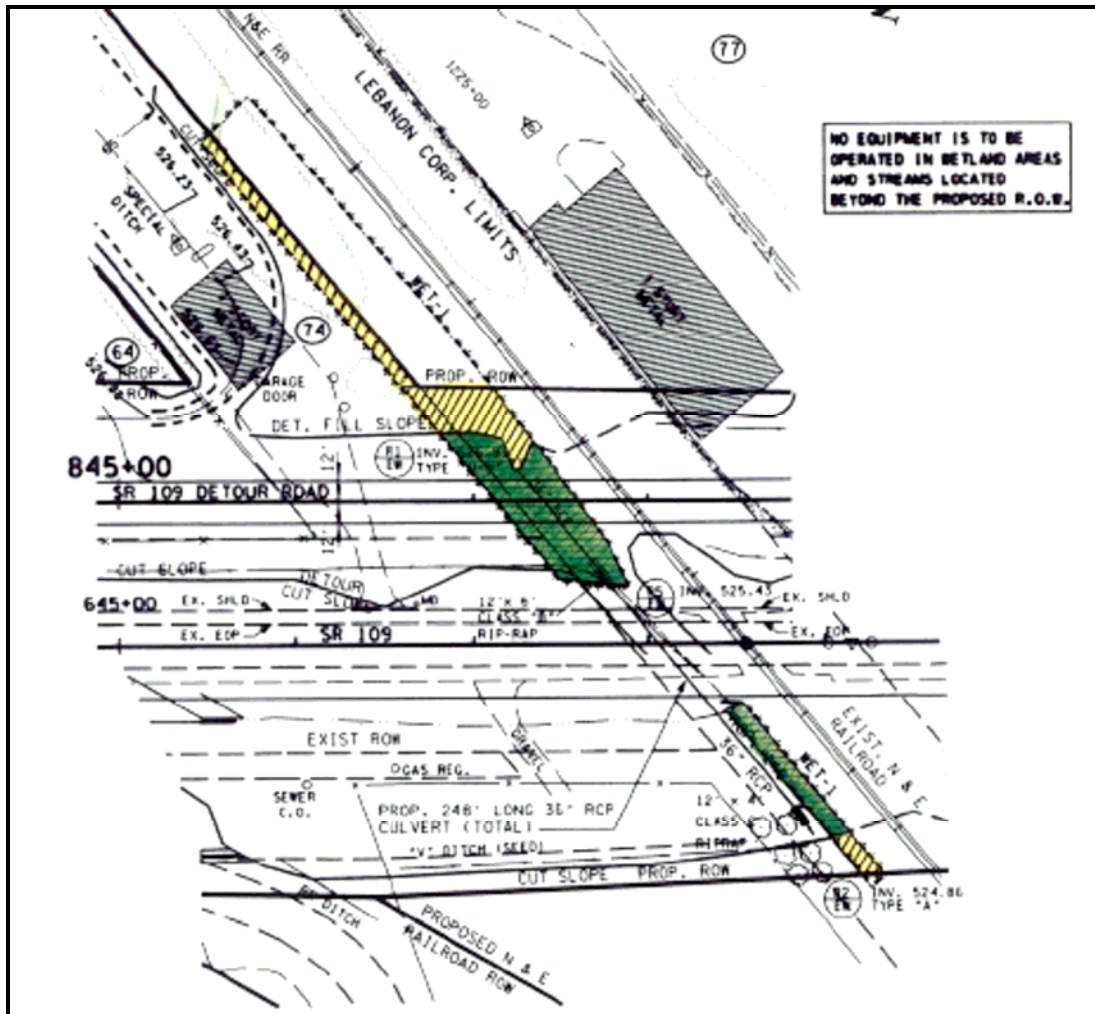


Figure 12: Present and proposed conditions for NRS 08.054G continued

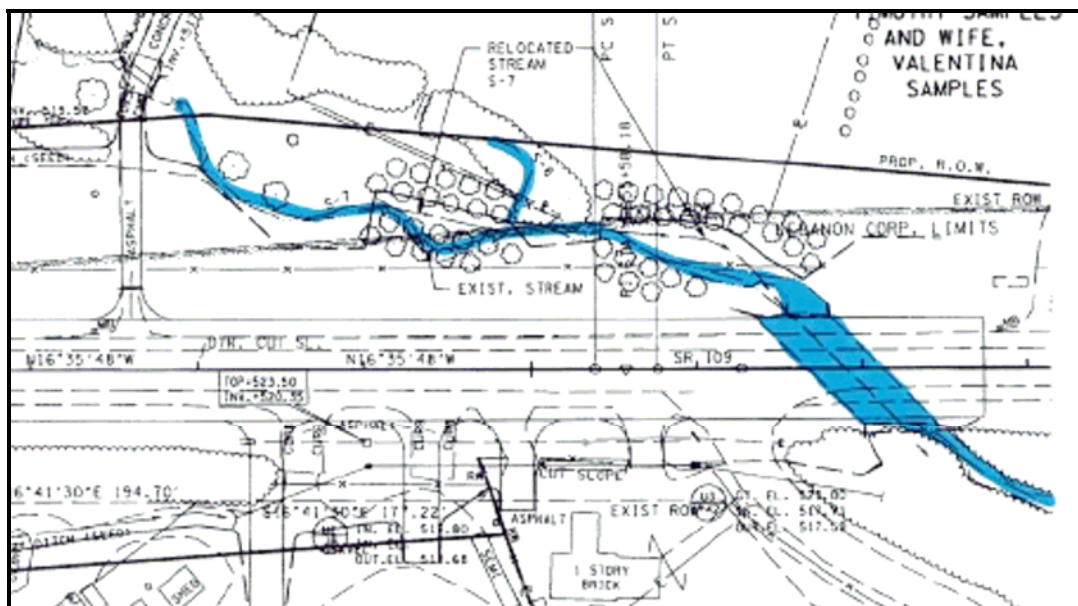


Figure 13: Present and proposed conditions for NRS 08.054H continued